

SEQUENCE LISTING

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<120> Plant phosphomevalonate kinases

<130> Le A 35 018

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<170> PatentIn Ver. 2.1

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Gly Leu Val Leu Ser Thr Asn Ala Arg Phe Tyr Ala Ile Val Lys Pro
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Ile Asn Glu Glu Val Lys Pro Glu Ser Trp Ala Trp Lys Trp Thr Asp
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Le A 35 018-Foreign Countries

- 2 -

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| Ser Leu Asn His Leu Thr Leu Gln Ser Val Ser Ala Ser Asp Ser Arg | |
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| Asn Pro Phe Val Glu His Ala Ile Gln Tyr Ala Ile Ala Ala Ala His | |
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| Asp Leu Asp Val Ile His Met Ile Ala Gln Thr Ser His Cys Leu Ala | |
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| Ser Gln Arg Tyr Val Arg Phe Ser Pro Glu Val Leu Ser Phe Ala Gln | |
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| gtt gca gta aca ggt ctg cca tta aat gaa gtt att ggt aca att ttg | 1527 |
| Val Ala Val Thr Gly Leu Pro Leu Asn Glu Val Ile Gly Thr Ile Leu | |
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| atg aat ctt ttc ctt gga gaa cct gga agt ggt gga tcc tcc aca cca | 1623 |

| | | | | | | | | | | | | | | | | | |
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| Met | Asn | Leu | Phe | Leu | Gly | Glu | Pro | Gly | Ser | Gly | Gly | Ser | Ser | Thr | Pro | | |
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| tca | atg | gta | ggg | gca | gta | aag | aag | tgg | caa | atg | tct | gat | cca | gag | aag | 1671 | |
| Ser | Met | Val | Gly | Ala | Val | Lys | Lys | Trp | Gln | Met | Ser | Asp | Pro | Glu | Lys | | |
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| Ala | Arg | Glu | Asn | Trp | Gln | Asn | Leu | Ser | Asp | Ala | Asn | Leu | Glu | Leu | Glu | | |
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| act | aag | cta | aac | gat | ctg | agc | aaa | tta | gct | aaa | gac | cac | tgg | gat | gtt | 1767 | |
| Thr | Lys | Leu | Asn | Asp | Leu | Ser | Lys | Leu | Ala | Lys | Asp | His | Trp | Asp | Val | | |
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| tat | cta | cga | gtc | att | aag | tct | tgt | agt | gtg | ctt | act | tct | gaa | aag | tgg | 1815 | |
| Tyr | Leu | Arg | Val | Ile | Lys | Ser | Cys | Ser | Val | Leu | Thr | Ser | Glu | Lys | Trp | | |
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| gtg | tta | cat | gct | act | gaa | cca | atc | aac | gaa | gcc | att | att | aaa | gaa | ctc | 1863 | |
| Val | Leu | His | Ala | Thr | Glu | Pro | Ile | Asn | Glu | Ala | Ile | Ile | Lys | Glu | Leu | | |
| | | | 380 | | | | 385 | | | | | 390 | | | | | |
| tta | gag | gca | aga | gaa | gct | atg | ttg | agg | atc | aga | att | ctt | atg | cgt | cag | 1911 | |
| Leu | Glu | Ala | Arg | Glu | Ala | Met | Leu | Arg | Ile | Arg | Ile | Leu | Met | Arg | Gln | | |
| | | 395 | | | | 400 | | | | | 405 | | | | | | |
| atg | ggg | gag | gcg | gct | agc | gtt | ccg | ata | gag | cct | gaa | tct | caa | act | caa | 1959 | |
| Met | Gly | Glu | Ala | Ala | Ser | Val | Pro | Ile | Glu | Pro | Glu | Ser | Gln | Thr | Gln | | |
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| ctt | ttg | gat | tct | aca | atg | agt | gct | gaa | gga | gtt | cta | ctt | gct | ggg | gtt | 2007 | |
| Leu | Leu | Asp | Ser | Thr | Met | Ser | Ala | Glu | Gly | Val | Leu | Leu | Ala | Gly | Val | | |
| | | | | 430 | | | | | 435 | | | | | 440 | | | |
| cct | gga | gct | ggg | gga | ttt | gat | gcc | ata | ttt | gca | atc | act | tta | ggg | gat | 2055 | |
| Pro | Gly | Ala | Gly | Gly | Phe | Asp | Ala | Ile | Phe | Ala | Ile | Thr | Leu | Gly | Asp | | |
| | | | 445 | | | | 450 | | | | | | 455 | | | | |
| tcc | ggc | acc | aaa | ctg | acc | cag | gca | tgg | agt | tcg | cac | aat | gtt | ttg | gcc | 2103 | |
| Ser | Gly | Thr | Lys | Leu | Thr | Gln | Ala | Trp | Ser | Ser | His | Asn | Val | Leu | Ala | | |
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| ttg | ttg | gtg | aga | gaa | gat | cca | cat | ggc | gtt | tgc | cta | gaa | agt | ggg | gat | 2151 | |
| Leu | Leu | Val | Arg | Glu | Asp | Pro | His | Gly | Val | Cys | Leu | Glu | Ser | Gly | Asp | | |
| | | | 475 | | | | 480 | | | | 485 | | | | | | |
| cca | cga | acc | aca | tgt | att | act | tca | ggc | gtt | tca | tca | att | cac | ctt | gag | 2199 | |
| Pro | Arg | Thr | Thr | Cys | Ile | Thr | Ser | Gly | Val | Ser | Ser | Ile | His | Leu | Glu | | |
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Gln Ser Val Ser Ala Ser Asp Ser Arg Asn Pro Phe Val Glu His Ala
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Glu Ser Leu His Lys Leu Leu Leu Gln Gly Leu Asp Ile Thr Ile Leu
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Gly Ser Asn Asp Phe Tyr Ser Tyr Arg Asn Gln Ile Glu Ser Ala Gly
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Cys Lys Glu Gly Lys Phe Gly Cys Ser Asp Leu Asp Val Ile His Met
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| gctgccgagc | tggagagcac | catttcgcacc | atatagagaa | gggggttgat | agattcctgg | 180 |
| tcaaggaaaa | ctgacaataa | ggtgaaaaaa | acaataatta | ccttcagatt | atctgatcat | 240 |
| cacatggctg | tagttgtgtc | agctcctggg | aagggttttaa | taacaggagc | ttatctaatt | 300 |
| cttgagaagc | caaatccagg | acttgtgtct | accaccacag | ctcgcttcta | cgccattgtg | 360 |
| aagccactgc | ggactagcac | agattccagt | agttgggcat | ggctatggac | agatgtgaaa | 420 |
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| tttgctgttg | cagctgcaaa | agaagccttt | g | | | 571 |